

Atty Docket: 1867-0041
2001P20319US

Amendments to the Claims:

Please amend claims 5, 7, 9, 17, 18, 21, 22 and 32 as set forth below. The following listing of claims will replace all prior versions, and listings, of claims in the application:

Claim 1 (canceled).

Claim 2 (previously presented). The data storage system of claim 6 wherein said database manager comprises software and wherein said database manager is stored in said static memory device.

Claim 3 (previously presented). The data storage system of claim 6 wherein said static memory device comprises a set of units, and further wherein said database manager copies a set of data elements stored in one of said units into said dynamic memory when one or more of said data elements is to be modified.

Claim 4 (original). The data storage system of claim 3 wherein said dynamic memory comprises a cache and wherein said set of data elements are copied from said static memory into said cache.

Claim 5 (currently amended). The data storage system of claim 4 wherein said database is configured to be accessed by a plurality of applications ~~has access to said database~~ and further wherein said cache is ~~used~~ configured to receive data to support modifications to the database made by said plurality of applications.

Atty Docket: 1867-0041
2001P20319US

Claim 6 (previously presented). A data storage system comprising: a database partitioned into a first section and a second section, said first section comprising static data and being stored in a static memory device, said second section comprising dynamic data and being stored in a dynamic memory device; and, a database manager for managing said database, wherein said database manager comprises a catalog that identifies a set of data fields in said database and further wherein said catalog specifies that at least some of said data fields contain static data elements and specifies that at least some of said data fields contain dynamic data elements.

Claim 7 (currently amended). The data storage system of claim 6 further including a database generation tool ~~adapted~~ operable to generate a database file that defines a set of data fields for storing a set of data elements, said set of data fields including one or more data fields for collectively storing a set of Boolean data elements.

Claim 8 (previously presented). The data storage system of claim 6 wherein said second section comprises a dynamic data file that occupies a contiguous portion of said dynamic memory.

Claim 9 (currently amended). The data storage system of claim 8 further comprising a file system ~~adapted~~ operable to access said dynamic data contained in said dynamic data file using one or more memory pointers.

Claim 10 (original). The data storage system of claim 9 wherein said file system is

Atty Docket: 1867-0041
2001P20319US

integrated with said database manager.

Claim 11 (previously presented). The data storage system of claim 6 wherein said second section comprises a third section and a fourth section, said third section comprising non-persistent dynamic data, said fourth section comprising persistent dynamic data, said third and fourth sections being stored in a non-volatile memory device.

Claim 12 (canceled).

Claim 13 (previously presented). The control system of claim ~~12~~ 14 wherein said database manager comprises software and wherein said database manager is stored in said static memory device.

Claim 14 (previously presented). A control system having a data storage system for storing data related to said control system, the control system comprising: a communication network; an application node coupled to said communication network, said application node having a static memory device and a dynamic memory device; a database partitioned into a first section and a second section, said first section comprising static data and being stored in said static memory device, said second section comprising dynamic data and being stored in said dynamic memory device; and, a database manager disposed in said application node for managing said database, wherein said second section comprises at least one dynamic data file that occupies a contiguous portion of said dynamic memory.

Atty Docket: 1867-0041
2001P20319US

Claim 15 (original). The control system of claim 14 further comprising a file system adapted to access said dynamic data contained in said dynamic data file using said one or more memory pointers.

Claim 16 (original). The control system of claim 14 wherein said file system is integrated with said database manager.

Claim 17 (currently amended). The control system of claim 14 wherein said dynamic memory comprises a cache and wherein said database manager ~~causes~~ is operable to copy a set of data elements ~~to be copied~~ from said static memory into said cache when at least one of said set of data elements require modification.

Claim 18 (currently amended). The control system of claim 17 wherein said database is configured to be accessed by a plurality of applications ~~may access said database~~ and further wherein said cache ~~supports~~ is configured to receive data to support modifications made to said database made by said plurality of applications.

Claim 19 (previously presented). The control system of claim 14 wherein said database comprises a catalog that identifies a set of data fields and further wherein said catalog specifies that at least some of said data fields contain static data elements and specifies that at least some of said data fields contain dynamic data elements.

Atty Docket: 1867-0041
2001P20319US

Claim 20 (previously presented). The control system of claim 14 further comprising a database generation tool for generating a database file containing a catalog, wherein said catalog defines one or more data fields for collectively storing a plurality of Boolean elements.

Claim 21 (currently amended). The control system of claim 14 further comprising a workstation coupled to said communication network, said workstation ~~being adapted~~ operable to execute a database interface software program, wherein said database interface software program enables user-access to said database.

Claim 22 (currently amended). The control system of claim 14 wherein said communications network comprises a first communications network, and wherein said first communications network is connected to a external second communications network wherein said database, said database manager, and said memory device ~~may be~~ are configured to be remotely communicated with over said external second communications network.

Claim 23 (canceled).

Atty Docket: 1867-0041
2001P20319US

Claim 24. (previously presented) A method for creating a database, said method comprising the steps of:

storing a set of static data elements in a static memory device;

storing a set of dynamic data elements in a dynamic memory device, wherein said database comprises said static data elements and said dynamic data elements; and creating a catalog for said database, said catalog specifying a plurality of data fields and said catalog further specifying that at least some of said data fields are stored in said static memory device and that at least some of said data fields are stored in said dynamic memory device.

Claims 25-31 (cancelled).

Claim 32 (original). A computer program product comprising a computer readable code stored on a computer readable medium, that is operable when executed, ~~causes by~~ a computer to: receive a data input file that defines a first set of data fields to be included in a database, said data input file including a plurality of data elements to be included in a database; use said data input file to identify a second set of data fields that are each designated in said data input file for storing a Boolean element, said second set of data fields being a subset of said first set of data fields; modify said first set of data fields to eliminate said second set of data fields; and, create a catalog for said database, said catalog defining an arrangement of said first set of data fields, wherein said arrangement includes said one or more new data fields for collectively storing said Boolean elements.